Service
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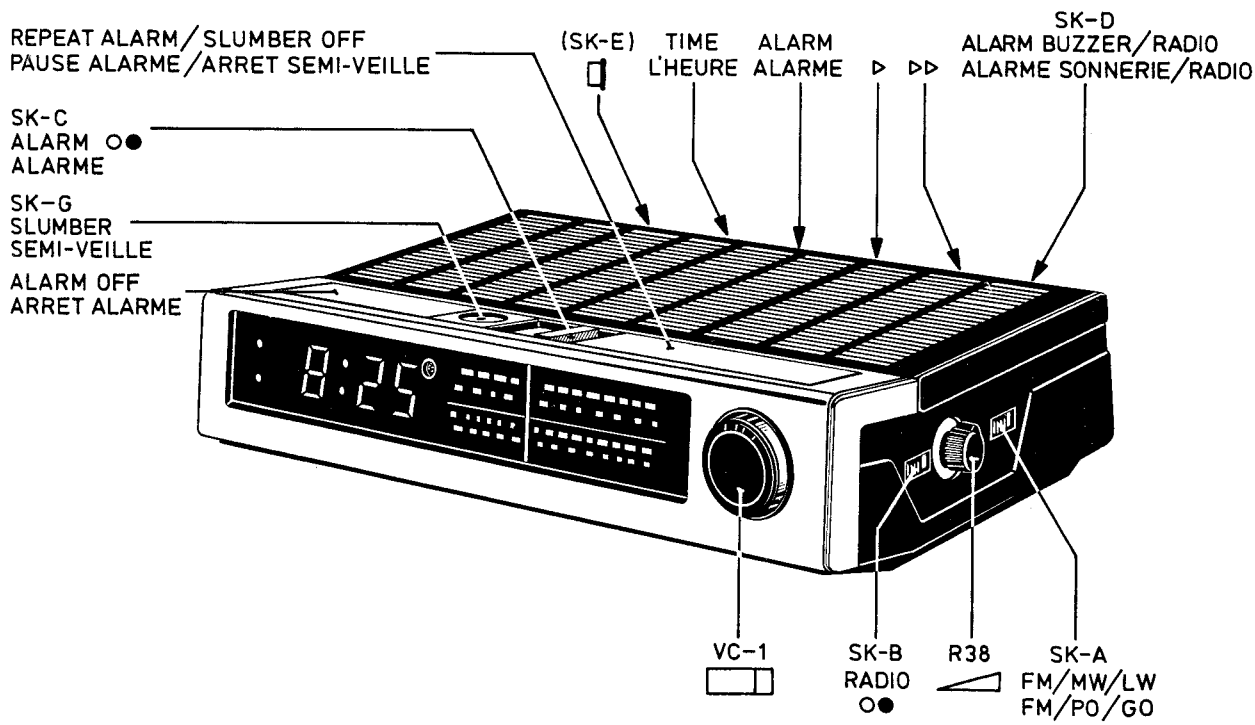
Service Manual

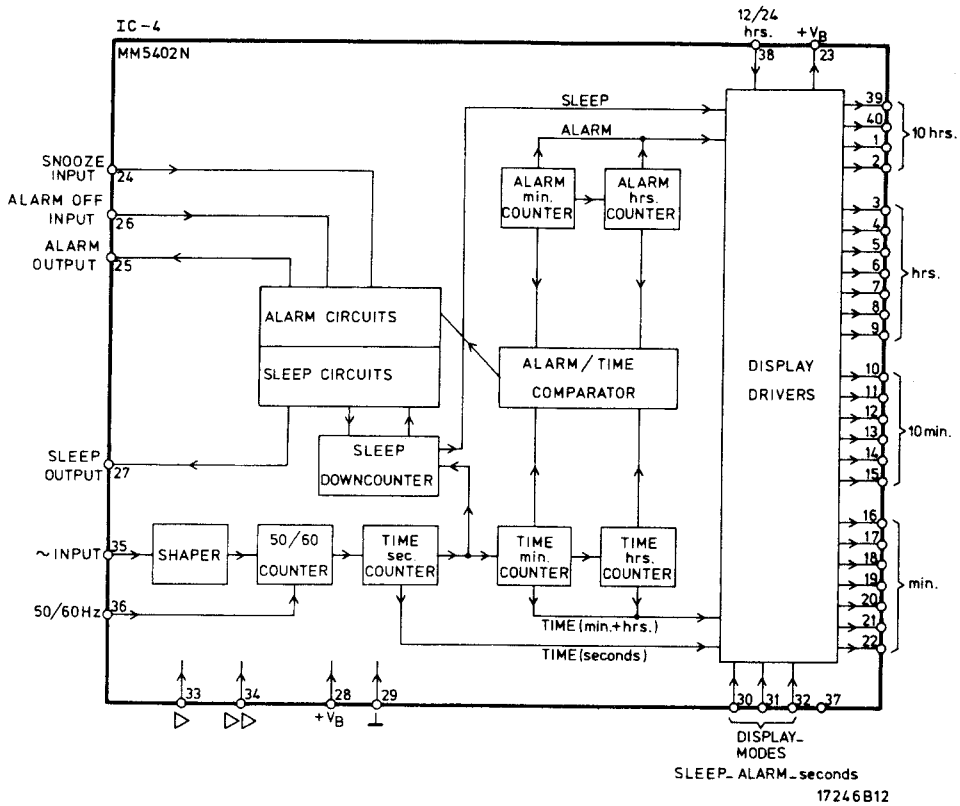


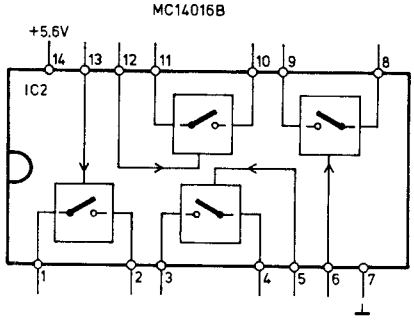
LW/GO	: 150-255 kHz (2000-1176 m)
MW/PO	: 520-1605 kHz (577-187 m)
FM	: 87.5-104 MHz
IF/FI-AM	: 468 kHz
IF/FI-FM	: 10.7 MHz
Mains/Secteur	: 110/120 V~ /50 Hz/9 V (Batt/pile)
Output/Sortie	: 200 mW ± 1 dB (d = 10 %)

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

Subject to modification
4822 725 13241
Printed in The Netherlands

PHILIPS





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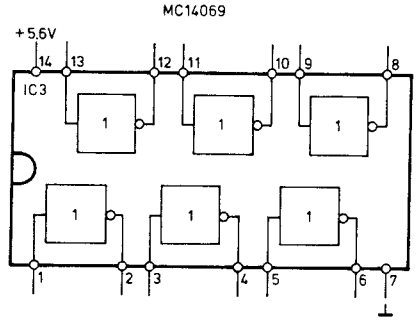

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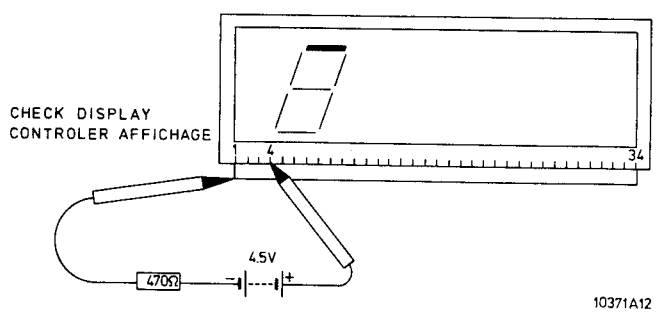

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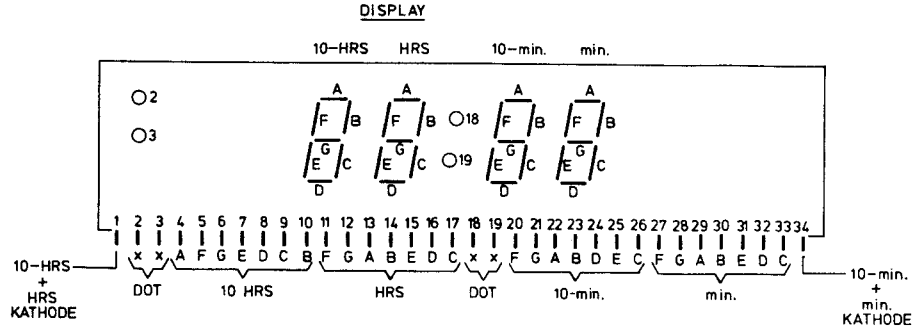
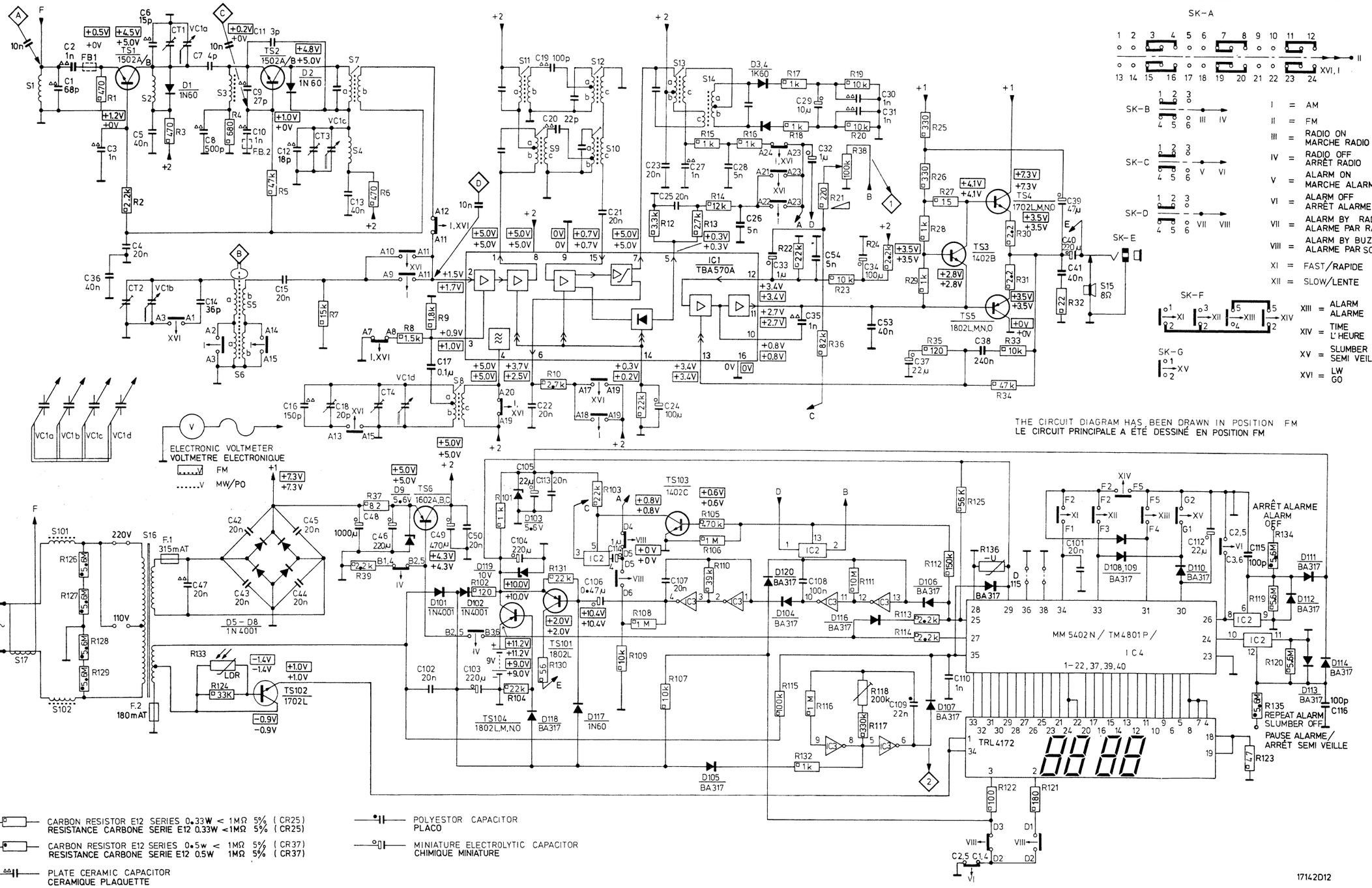

DISPLAY
10-HRS HRS 10-min. min.
O2
O3
O18
O19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
x x A F G E D C B F G A B E D C x x F G A B D E C F G A B E D C
10-HRS + HRS KATHODE
DOT
10 HRS
HRS
DOT
10-min.
min.
10-min. + min. KATHODE

12258B12

MISC.	S1	FB1	S101	F.2	TS1	S2	S15	D1	CT1	F.1	S3	S5	TS2	D2	VC1c	S4	CT4	TS6	S8	S9	D103	S11	D119	D17	S10	S12	IC1	S13	S14	D3	D104	D116	D106	TS3	TS4	D115	D108	IC4	D110	D112	D111
	S17	S102	CT2	VC1b	VC1a	TS102	S6	FB.2	D5–D8	CT3	S7	VC1d	D9	D101	D102	TS04	TS101	D118	TS102	TS103	D105	D4	D120	D107	TS5	D109	S15	D113	D114
C	1	2	3	4	5	14	8	7	9	10	11	12	16	18	13	46	17	49	22	19	20	113	21	23	25	28	26	33	29	30	32	37	38	39	40						
	36	6	47	42	43	15	44	45	48	51	102	50	103	104	105	106	114	24	107	27	35	108	54	31	34	53	109	110	111	41	101	112	115								
R	1	129	2	3	133	4	5	7	6	9	101	130	10	103	12	13	14	105	16	17	18	21	132	23	19	117	24	25	113	114	112	136	33	30	121	32	123	134	119		
	126	127	128	124	37	39	102	104	131	109	11	108	107	15	106	110	115	22	116	36	20	111	118	38	28	29	26	27	35	125	122	34	31	135	120						



CS 66 187

SK						
MW (520 - 1605 KHz)	468 KHz [3]	D	MAX.		S12 , S11	1 MAX
	512 KHz	B	MAX.		S8	1 MAX.
	1635 KHz		MIN.		CT 4	
	550 KHz				S5	
	1500 KHz				CT 2	
LW (150 - 255 KHz)	147 KHz	B	MAX.		C18	1 MAX.
	155 KHz				S6	
FM (87.5 - 104 MHz)	10.7 MHz	C		S14	S13 , S10 S9 , S7	1 MAX
					S14	1 MIN
	86.5 MHz	A	MAX.		S4	1 MAX.
	105 MHz		MIN.		CT 3	
	88 MHz				S2	
	103 MHz				CT1	
CLOCK FREQUENCY (50 / 60 Hz)	[4]				R 118	2 [5]

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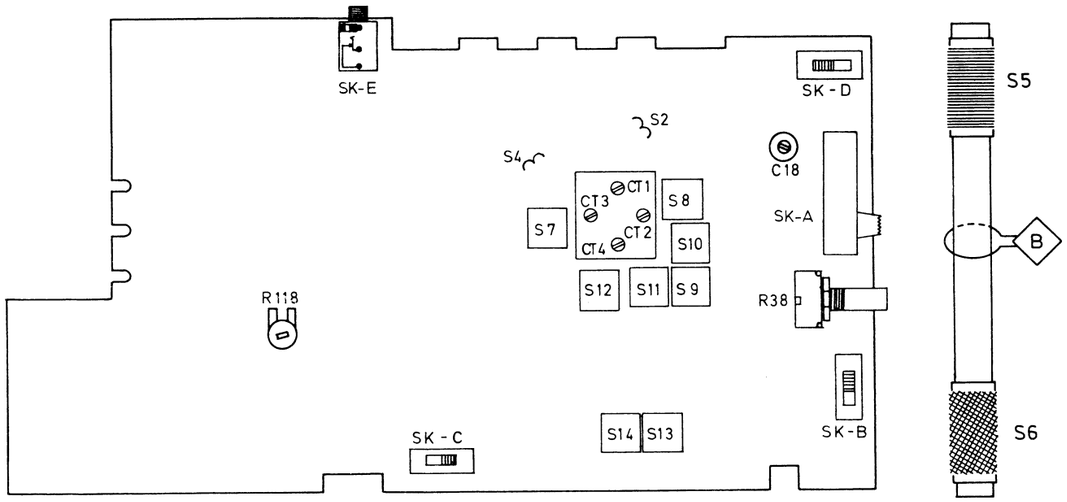

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GB

[3] Signal injected via 10 nF capacitor.

[4] 1. No mains supply from power transformer.
2. DC supply from MBB 9 V battery.

[5] Adjust to line frequency (50 or 60 Hz as specified)

F

[3] Injecter un signal à travers un condensateur de 10 nF.

[4] 1. Ne pas appliquer de tension d'alimentation du transformateur secteur.
2. Appliquer la tension DC de la pile 9 V MBB.

[5] Aligner pour l'obtention de la fréquence ligne (50 ou 60 Hz selon spécification)

I

[3] Iniettare un segnale tramite un condensatore di 10 nF.

[4] 1. Non applicare di tensione di alimentatione dal transformatore rete.
2. Applicare la tensione DC dalla batteria 9 V MBB.

[5] Regolare fino ad attenere la frequenza linea (50 o 60 Hz a secondo della specificazione).

NL

[3] Signaal injecteren via een 10 nF condensator.

[4] 1. Geen voeding van nettransformator.
2. Gelijkspanning van een MBB 9 V batterij.

[5] Afregelen op netfrequentie (50 of 60 Hz zoals gespecificeerd).

D

[3] Signal durch einen Kondensator von 10 nF zuführen.

[4] 1. Keine Netzspeisung auf dem Netztransformator.
2. Gleichstrom zuführen mittels einer 9 V MBB Batterie.

[5] Auf Zeilenfrequenz abregeln (50 oder 60 Hz, wie spezifiziert).

S

[3] Tillfer signal via en kondensator på 10 nF.

[4] 1. Ingen nätspänning från nättransformator.
2. Likspänning från MBB 9 V Batteri.

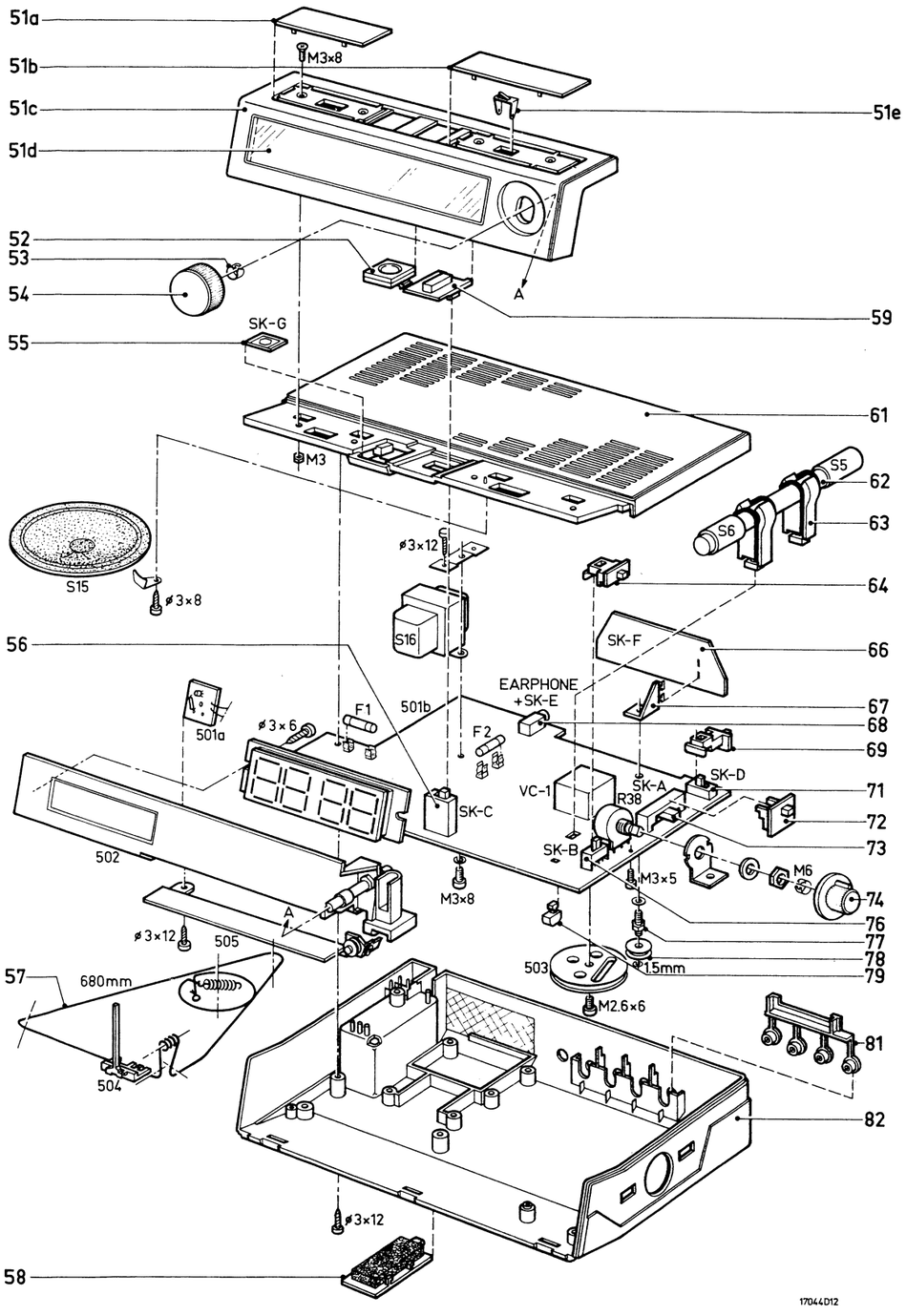
[5] Justera till nätfrekvens (50 eller 60 Hz enligt Specifikation).

SF

[3] Signaali syötetään 10 nF:N Kondensaattorin välityksellä.

[4] 1. Ei verkkosyöttää verkkomuuntajasta.
2. Tasavirta 9 V:N MBB paristosta.

[5] Säädä verkkotaajuus (50 tai 60 Hz ohjeen Mukaan).



51a÷e	4822 426 50343	
51a÷e	4822 426 50375	/28
52	4822 410 22186	
53	4822 492 61974	
54	4822 413 40834	
55	4822 214 50199	
56	4822 277 20575	
57	4822 321 30214	
58	4822 426 60143	
59	4822 410 22185	
61	4822 426 40163	
62	4822 526 10123	
63	4822 256 90267	
64	4822 410 22183	
66	4822 214 50198	
67	4822 404 20285	
68	4822 267 30321	
69	4822 410 22182	
71	4822 277 20578	
72	4822 410 22184	
73	4822 277 20577	
74	4822 413 40833	
76	4822 277 20576	
77	4822 535 70581	
78	4822 528 80749	
79	4822 528 80733	
81	4822 410 22181	
82	4822 435 60023	

-TS-		
1,2	1502A (BF495)	4822 130 40947
3	1402B (BC548B)	4822 130 40937
4,5	1702/1802 (BC328/338)	4822 130 40942
6	1602A (BC558)	4822 130 40941
101	1802L (BC328)	4822 130 44104
102	1702L (BC338)	4822 130 44121
103	1402A (BC548A)	4822 130 40948
104	1802L (BC328)	4822 130 44104

-D-		
1,2; 3,4	2-1N60 (2-AA119)	4822 130 30312
5÷8	1N4001 (BY188B)	4822 130 30829
9	BZX79C5V6	4822 130 34173
101,102	1N4001 (BY188B)	4822 130 30829
103	BZX79C5V6	4822 130 34173
104÷116	BA317	4822 130 30847
117	1N60 (AA119)	4822 130 31012
118	BA317	4822 130 30847
119	Zener 10 V	4822 130 34297
120	BA317	4822 130 30847

-IC-		
1	TBA570A	4822 209 80358
2	MC14016B	5322 209 14119
3	MC14069	5322 209 10033
4	MM5402	4822 209 10024

-S-		
5	MW ANT. coil	4822 156 30612
6	LW ANT. coil	4822 158 60425
7	AM OSC. green	4822 153 50198
8	FM IFT red	4822 156 30525
9,10	AM OSC. green	4822 153 50198
11,12	AM IFT white	4822 153 10287
13	FM coil pink	4822 153 10237
14	FM coil blue	4822 156 30442
15	Speaker 3 In.	4822 240 30106
16	Transformer	4822 146 20564

-C-		
VC1a,b,c,d	Varco	4822 125 20221
4	0.02 µF +80 –20 %	4822 122 30103
5	0.04 µF +80 –20 %	4822 122 31152
7	4 pF +0.25 pF	4822 122 31043
11	3 pF +0.25 pF	4822 122 31223
13	0.04 µF +80 –20 %	4822 122 31152
14	36 pF +5 %	4822 122 40107
15	0.02 µF +80 –20 %	4822 122 30103
17	0.1 µF +80 –20 %	5322 122 30108
18	Trimmer 20 pF	4822 125 50045
20	22 pF +5 %	4822 122 31063
21÷23,25	0.02 µF +80 –20 %	4822 122 30103
36	0.04 µF +80 –20 %	4822 122 31152
38	240 pF +5 %	4822 122 40161
41	0.04 µF +80 –20 %	4822 122 31152
42÷45	0.02 µF +80 –20 %	4822 122 30103
47,50		
53	0.04 µF +80 –20 %	4822 122 31152
101,102,107	0.02 µF +80 –20 %	4822 122 30103
108	0.1 µF +80 –20 %	5322 122 30108
113	0.02 µF +80 –20 %	4822 122 30103

-R-		
38	Potm. volume 100 K	4822 101 30384
118	Trimmer 200 K	4822 101 10241
133	L.D.R.	4822 116 10019
136	V.D.R.	4822 116 21042

-Miscellaneous-		
F1	Fuse 315 mA (T)	4822 253 30014
F2	Fuse 180 mA (T)	4822 253 30011
35	TLR4172 Display	4822 130 31009

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

(S)

Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning av föreskrivna reservdelar.

(DK)

Myndighedernes sikkerheds- og radiostøjbestemmelser kræver, at enhver reparation skal udføres korrekt m.h.t. overholdelse af originalplacering og montering af komponenter, ledningsbundter, etc, og ved anvendelse af de foreskrevne reservedele.

(N)

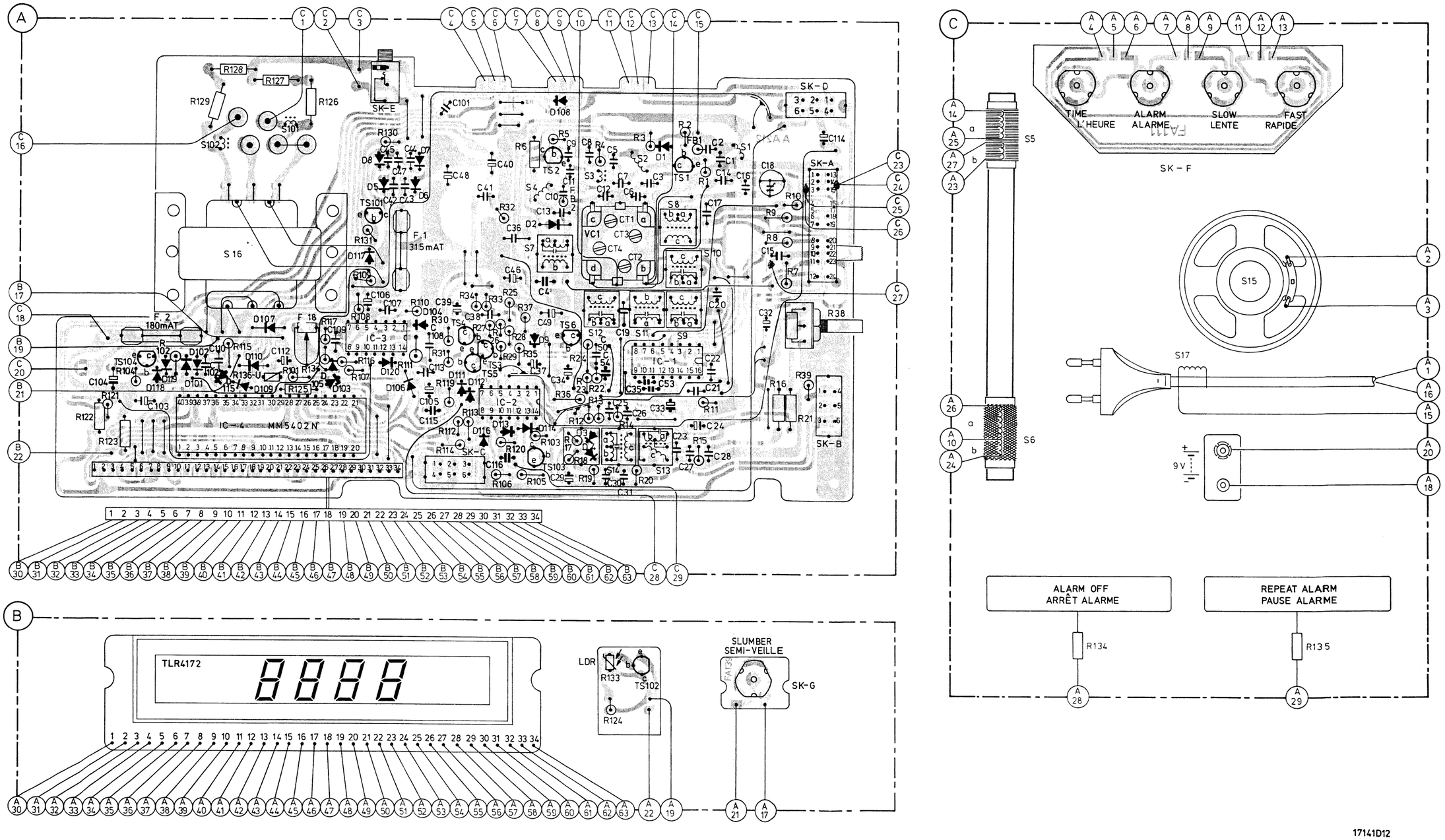
Sikkerhetsbestemmelser kreves at apparatet blir gjennopprettet til original utførelse og at deler som er identiske med de som er spesifisert, blir benyttet.

(SF)

Korjatessa laitetta on turvallisuussyistä ehdottomasti eneteltävä oikein ja käytettävä tehtaan määräämiä alkuperäisvaraosia.

| | | |

MISC.	F.2 S102 S16 D110 D107 S101 D105 TS101 SK-E D8 D106 D7 D104 TS4 TS5 TS3 IC2 D114 S4 TS2 FB2 D2 D108 S3 S14 **VC1** S2 S11 D1 IC1 TS1 **FB1** S1 SK-D	S5 S17
	TS104 D118 D119 D102 D101 IC4 D109 **D115** D103 D117 IC3 D5 D120 F1 D6 SK-C D111 D112 D116 D113 TS103 D9 TS105 S7 TS6 D3 D4 CT4 CT3 CT2 TS102 S13 S8 S10 S9 SK-G SK-A SK-B	S6 SK-F S15
C	104 110 109 106 45 47 44 113 108 101 41 40 36 37 4 10 9 29 8 12 25 5 19 6 3 **54** **53** 23 21 2 22 1 14 18 15 114	
	103 102 112 42 107 43 **115** 105 48 39 38 46 **116** 49 13 11 34 50 30 7 31 26 35 33 27 24 17 28 20 16 32	
R	122 104 129 128 127 101 126 117 116 109 131 130 110 30 119 113 34 33 26 32 25 28 37 6 103 5 17 24 4 13 133 14 3 2 1 9 10 38	
	121 123 102 115 **136** 125 118 132 107 108 111 31 114 112 27 29 106 120 35 105 36 18 23 12 19 124 22 20 15 11 8 16 7 21 39	134 135



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